

HISTORIC AMERICAN ENGINEERING RECORD
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CAL,
22-YOSEM,
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Yosemite Hydroelectric Power Plant
(Cascades Power Plant)
Intersection of State Highways 120
and 140, Continuing North Side
of Highway 120 for 1 Mile
Yosemite National Park
Mariposa County
California

HAER NO. CA-20

Richard Frear, Photographer June 1982 [Photographs 1-27]

- CA-20-1 POWER HOUSE, VIEW TO EAST
- CA-20-2 POWER HOUSE, VIEW TO SOUTHEAST WITH PACIFIC GAS
AND ELECTRIC SUBSTATION IN FOREGROUND
- CA-20-3 POWERHOUSE, PLAQUE ON SOUTH WALL AT ENTRY
- CA-20-4 POWERHOUSE, PLAQUE ON SOUTH WALL AT ENTRY
- CA-20-5 POWERHOUSE, PELTON-FRANCIS TURBINES (GENERATORS)
[UNITS NOS. 1 AND 2] WITH REGULATOR PANEL AT LEFT
AND GATE VALVE IN CENTER FOREGROUND
- CA-20-6 POWERHOUSE, PELTON-FRANCIS TURBINE (GENERATOR),
[UNIT NO. 2]
- CA-20-7 POWERHOUSE, PELTON-FRANCIS TURBINE (GENERATOR),
[UNIT. NO. 1]
- CA-20-8 POWERHOUSE, PELTON-FRANCIS TURBINE (GENERATOR)
- CA-20-9 POWERHOUSE, REGULATOR PANEL
- CA-20-10 POWERHOUSE, TRANSFORMER
- CA-20-11 SCREENHOUSE, VIEW TO SOUTH/SOUTHWEST
- CA-20-12 SCREENHOUSE, VIEW TO SOUTH/SOUTHWEST
- CA-20-13 SCREENHOUSE, VIEW TO SOUTH/SOUTHWEST
- CA-20-14 SCREENHOUSE, DRIVE WHEEL ON SCREEN
- CA-20-15 SCREENHOUSE, MAIN GATE (INTAKE) AS MANUALLY
OPERATED ORIGINALLY [NOW CONTROLLED
HYDRAULICALLY]

- CA-20-16 SCREENHOUSE, ROTATING SCREEN FOR FILTERING WATER
- CA-20-17 DIVERSION DAM, VIEW TO SOUTH/SOUTHWEST WITH SCREENHOUSE, PLATFORM, AND INTAKE AT RIGHT
- CA-20-18 DIVERSION DAM, VIEW TO EAST WITH SCREENHOUSE BEHIND TREES AT LEFT
- CA-20-19 DIVERSION DAM, VIEW TO SOUTH
- CA-20-20 PENSTOCK, VIEW TO NORTH NEAR SCREENHOUSE WITH HIGHWAY 140 IN FOREGROUND
- CA-20-21 PENSTOCK, VIEW TO SOUTHWEST WITH NO. 1 BUTTERFLY VALVE FOR AUTOMATIC SHUTOFF JUST BELOW SCREENHOUSE IN FOREGROUND
- CA-20-22 PENSTOCK, VIEW TO NORTHEAST FROM HIGHWAY 140 JUST EAST OF NO. 1 BUTTERFLY VALVE
- CA-20-23 PENSTOCK, VIEW TO SOUTHEAST
- CA-20-24 PENSTOCK, VIEW TO EAST NEAR HIGHWAY 140
- CA-20-25 PENSTOCK, VIEW TO SOUTH
- CA-20-26 PENSTOCK, VIEW TO NORTHWEST WITH STEEL CAT WALK AND PENSTOCK PORTION
- CA-20-27 PENSTOCK, VIEW TO NORTH/NORTHWEST WITH TRESTLE IN FOREGROUND
- CA-20-28 Photocopy of microfiched construction drawing by Pelton Water Wheel Company, San Francisco, California, dated May 6, 1947. (Microfiched drawing located at the Denver Service Center, #104/60154 - 2 of 18)
LONGITUDINAL SECTION OF RECONSTRUCTED TURBINE UNIT NO. 2
- CA-20-29 Photocopy of microfiched construction drawing by Pelton Water Wheel Company, San Francisco, California, dated Feb. 8, 1934. (Microfiched drawing located at the Denver Service Center, #104/60154 - 3 of 18)
24" HAND OPERATED GATE VALVE
- CA-20-30 Photocopy of microfiched construction drawing by Pelton Water Wheel Company, San Francisco, California, dated 6-24-31. (Microfiched drawing located at the Denver Service Center, #104/60154 - 4 of 18)
0-3 & 0-5 GOVERNORS, CHART OF PIECE NUMBERS

- CA-20-31 Photocopy of microfiched construction drawing by Pelton Water Wheel Company, San Francisco, California, originally dated 5-2-47 with alterations dated 6-7-54 and 11-9-54. (Microfiched drawing located at the Denver Service Center, #104/60151 - 5 of 18)
LONGITUDINAL SECTION OF RECONSTRUCTED TURBINE
- UNIT NO. 2.
- CA-20-32 Photocopy of microfiched construction drawing by Pelton Water Wheel Company, San Francisco, California, dated 4-19-47. (Microfiched drawing located at the Denver Service Center, #104/60154 - 6 of 18)
LONGITUDINAL SECTION OF 31" SINGLE DISCHARGE
PELTON-FRANCIS TURBINE.
- CA-20-33 Photocopy of microfiched construction drawing by Galloway & Markwart Engineers, San Francisco, California, dated originally Jan. 23, 1917, with revisions dated April 20, 1917, and June 8, 1917. (Microfiched drawing located at the Denver Service Center, #104/60154 - 7 of 18)
PENSTOCK PIPE, MAP - PROFILE - PIPE DETAILS
- CA-20-34 Photocopy of microfiched construction drawing by Galloway & Markwart Engineers, San Francisco, California, dated originally Jan. 23, 1917, with a revision dated April 20, 1917. (Microfiched drawing at the Denver Service Center, #104/60154 - 8 of 18)
PENSTOCK PIPE, AIR VALVES - MAN HOLE - REDUCER
& PIPE BENDS - EXPANSION JOINT & ANCHORS, "Y"
CONNECTION & BLIND FLANGE.
- CA-20-35 Photocopy of microfiched construction drawing by Galloway & Markwart Engineers, San Francisco, California, dated March 21, 1917. (Microfiched drawing at the Denver Service center, #104/60154 - 11 of 18)
DETAILS OF SCREEN FOR INTAKE CHAMBER
- CA-20-36 Photocopy of microfiched construction drawing by Galloway & Markwart Engineers, San Francisco, California, dated April 3, 1917. (Microfiched drawing at the Denver Service Center, #104/60154 - 12 of 18)
POWER STATION BUILDING, PLAN - ELEVATIONS &
DETAILS
- CA-20-37 Photocopy of microfiched construction drawing by Galloway & Markwart Engineers, San Francisco, California, dated originally April 11, 1917 with a revision dated May 4, 1917. (Microfiched drawing at the Denver Service Center, #104/60154 - 13 of 18)
YOSEMITE POWER PLANT - FOUNDATION PLAN AND
DETAILS

- CA-20-38 Photocopy of microfiched construction drawing by Galloway & Markwart Engineers, San Francisco, California, dated originally July 3, 1917, with a revision dated Sept. 5, 1917. (Microfiched drawing of the Denver Service Center, #104/60154 - 15 of 18)
FLOWLINE PIPE - DETAILS OF WOOD STOVE PIPE, AIR VALVES, MAN HOLES, STAND PIPE & PIPE BENDS
- CA-20-39 Photocopy of microfiched construction drawing by Galloway & Markwart Engineers, San Francisco, California, dated July 6, 1917 (Microfiched drawing at the Denver Service Center, #104/60154 - 16 of 18)
FLOW LINE PIPE TRESTLE DETAILS
- CA-20-40 Photocopy of microfiched construction drawing by Galloway & Markwart Engineers, San Francisco, California, dated July 6, 1917. (Microfiched drawing located at the Denver Service Center, #104/60154 - 17 of 18)
FLOW LINE PIPE TRESTLE DETAILS
- CA-20-41 Photocopy of microfiched construction drawing by Galloway & Markwart Engineers, San Francisco, California, dated Feb. 9, 1918. (Microfiched drawing located at the Denver Service Center, #104/60154 - 18 of 18)
PLAN OF ELECTRICAL EQUIPMENT
- CA-20-42 Photocopy of original print construction drawing by General Electric Company, Schenectady, N.Y., dated Jan. 10, 1917 (original print located at Yosemite National Park 104/60264)
OUTLINE - GENERATOR, EXCITER & MACHINE
- CA-20-43 Photocopy of microfiched construction drawing by Office of Park Engineer, Yosemite National Park, California, dated Sept. 25, 1934 (Microfiched drawing located at the Denver Service Center, #104/8058)
STANDPIPE DETAILS FOR POWER HOUSE PENSTOCK LINE
- CA-20-44 Photocopy of microfiched construction drawing by Galloway & Markwart Engineers, San Francisco, California, dated Feb. 1918 (Microfiched drawing located at the Denver Service Center, #104/2222)
PLAN AND DETAILS OF DAM AND INTAKE
- CA-20-45 Photocopy of original construction drawing by Yosemite National Park, California, dated August, 1931. (Original located at Federal Records Center, Denver, Colorado - 104/5069)
PLAN FOR CONTROLLING LEAKAGE AT POWER HOUSE DIVERSION DAM

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- CA-20-46 Photocopy of microfiche construction drawing by Yosemite National Park, California, date unknown. (Microfiche drawing located at the Denver Service Center, #104/5048). ELECTRIC DISTRIBUTION SYSTEM (SHEET 1 OF 2, Eastern Section).
- CA-20-47 Photocopy of microfiche construction drawing by Yosemite National Park, California, date unknown. (Microfiche drawing located at the Denver Service Center, #104/5048). ELECTRIC DISTRIBUTION SYSTEM (SHEET 2 OF 2, Western Section).